

In the Claims.

Claims 1-50. Cancelled.

51. (New) A selectively configured porous particulate comprising a porous particulate treated with a non-porous penetrating, coating and/or glazing material.

52. (New) The selectively configured porous particulate of Claim 51, wherein either:

(i.) the apparent specific gravity of the selectively configured porous particulate is less than the apparent specific gravity of the porous particulate;

(ii.) the permeability of the selectively configured porous particulate is less than the permeability of the porous particulate; or

(iii.) the porosity of the selectively configured porous particulate is less than the porosity of the porous particulate.

53. (New) The selectively configured porous particulate of Claim 52, wherein the apparent specific gravity of the selectively configured porous particulate is less than the apparent specific gravity of the porous particulate.

54. (New) The selectively configured porous particulate of Claim 51, wherein the penetrating, coating and/or glazing material is capable of encapsulating air or a lightweight fluid within the porous particulate.

55. (New) The selectively configured porous particulate of Claim 51, wherein the selectively configured porous particulate exhibits crush resistance under conditions as high as 10,000 psi closure stress, API RP 56 or API RP 60.

56. (New) The selectively configured porous particulate of Claim 55, wherein the selectively configured porous particulate exhibits crush resistance under conditions from about 250 to about 8,000 psi closure stress.

57. (New) The selectively configured porous particulate of Claim 51, wherein the porous particulate is treated with a liquid and/or curable resin, plastic, cement, sealant, or binder.

58. (New) The selectively configured porous particulate of Claim 57, wherein the porous particulate is treated with a resin, plastic or binder.

59. (New) The selectively configured porous particulate of Claim 58, wherein the porous particulate is coated and/or penetrated with a phenol formaldehyde, melamine formaldehyde, urethane, or epoxy resin.

60. (New) The selectively configured porous particulate of Claim 57, wherein the porous particulate is penetrated with nylon, polyethylene or polystyrene or a combination thereof.

61. (New) The selectively configured porous particulate of Claim 57, wherein the coating and/or penetrating material is a liquid having an apparent specific gravity less than the apparent specific gravity of the porous particulate.

62. (New) The selectively configured porous particulate of Claim 51, wherein the porous particulate comprises a multitude of coated particulates bond together.

63. (New) The selectively configured porous particulate of Claim 51, wherein the strength of the selectively configured porous particulate is greater than the strength of the porous particulate.

64. (New) The selectively configured porous particulate of Claim 51, wherein the porous particulate has a maximum length-based aspect ratio of equal to or less than about 5.

65. (New) The selectively configured porous particulate of Claim 51, wherein the porous particulate is a ceramic or organic polymeric material.

66. (New) The selectively configured porous particulate of Claim 65, wherein the porous particulate is a ceramic.

67. (New) The selectively configured porous particulate of Claim 65, wherein the organic polymeric material is a polyolefin, styrene-divinylbenzene copolymer, polyalkyl acrylate ester, an ethyl carbamate-based resin or a modified starch.

68. (New) The selectively configured porous particulate of Claim 51, wherein the porous particulate is a naturally occurring material.

69. (New) The selectively configured porous particulate of Claim 51, wherein the selectively configured porous particulate has an apparent density from about 1.1 g/cm^3 to about 2.6 g/cm^3 and a bulk apparent density from about 1.03 g/cm^3 to about 1.4 g/cm^3 .

70. (New) The selectively configured porous particulate of Claim 51, wherein the porous particulate has an internal porosity from about 10 to about 75 volume percent.

71. (New) The selectively configured porous particulate of Claim 51, wherein the porous particulate is a relatively lightweight and/or substantially neutrally buoyant particulate.

72. (New) The selectively configured porous particulate of Claim 71, wherein the apparent specific gravity of the porous particulate is less than or equal to 2.4.

73. (New) The selectively configured porous particulate of Claim 72, wherein the apparent specific gravity of the porous particulate is less than or equal to 2.25.

74. (New) The selectively configured porous particulate of Claim 73, wherein the apparent specific gravity of the porous particulate is less than or equal to 2.0.

75. (New) The selectively configured porous particulate of Claim 74, wherein the apparent specific gravity of the porous particulate is less than or equal to 1.75.

76. (New) The selectively configured porous particulate of Claim 75, wherein the apparent specific gravity of the porous particulate is less than or equal to 1.25.

77. (New) The selectively configured porous particulate of Claim 51, wherein the size of the selectively configured porous particulate is between from about 200 mesh to about 8 mesh.

78. (New) The selectively configured porous particulate of Claim 51, wherein the coating or penetrating layer is present in the selectively configured porous particulate in an amount of from about 0.5 to about 10% by weight of total weight.

79. (New) The selectively configured porous particulate of Claim 51, wherein the thickness of the coating of the selectively configured porous particulate is from about 1 to about 5 microns.

80. (New) The selectively configured porous particulate of Claim 51, wherein the extent of penetration of the penetrating material is from less than about 1% penetration by volume to less than about 25% penetration by volume.

81. (New) The selectively configured porous particulate of Claim 51, wherein the selectively configured porous particulate has a glazed surface.

82. (New) A sand control particulate comprising at least one selectively configured porous particulate of Claim 51.

83. (New) A proppant comprising at least one selectively configured porous particulate of Claim 51.

84. (New) A composition for treating a well comprising a suspension of at least one selectively configured porous particulate of Claim 51 and a carrier.

85. (New) The composition of Claim 84, wherein the carrier is a completion or workover brine, salt water, fresh water, or liquid hydrocarbon or a mixture thereof or a gas, a liquefied gas or a foamed gas.

86. (New) The composition of Claim 85, wherein the carrier is a liquid carbon dioxide based system, carbon dioxide/nitrogen or foamed nitrogen in carbon dioxide.

87. (New) The composition of Claim 84, which further comprises a gelling agent, crosslinking agent, gel breaker, surfactant, foaming agent, demulsifier, buffer, clay stabilizer, acid or a mixture thereof.

88. (New) The composition of Claim 84, wherein the carrier fluid is a non-gelled carrier fluid containing a friction reducer.